



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,549	06/10/2005	Yun-Kee Kang	5294-000025/NP	3684
27572 7590 07/20/2007 HARNES, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			EXAMINER TAKELE, MESEKER	
			ART UNIT 2174	PAPER NUMBER
			MAIL DATE 07/20/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/538,549

Applicant(s)

KANG ET AL.

Examiner

Meseker Takele

Art Unit

2174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 June 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/15/2005, 06/10/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang (US PUB No.: 2004/0012642) and Lee (US Patent No.: 6,963,332).

As to claim 1, Yang discloses a method of inputting letters in a wireless terminal (example, Inputting characters on a wireless mobile terminal, see abstract) comprising steps of:

a) typing in at least a first and last letters of a word to be input, and pressing a function key (See, Figure 6 element 600 and 602);

b) recognizing as the last letter of the word to be input a letter typed-in prior to pressing the function key (example, if a key corresponding to a sentence input completion is inputted, see, paragraph [0043], Figure 6 and Figure 2);

c) from a word repository, retrieving words having the same first and last letters as the typed-in first and last ones (see Figure 2 element 202 and 204).

and displaying the retrieved words on a display device (see Figure 6 element 604); and

d) selecting a desired word from the displayed words, and converting the typed-in first and last letters into the selected word (see, Figure 3 and paragraph [0026].

However Yang does not disclose specifically disclose retrieving.

Lee from the same field of endeavor disclose retrieving (see col. 3 lines, 58-67).

It would have been obvious to have modified Yang's retrieving as presented by Lee.

The motivation to combine to provide a method for inputting characters in a mobile terminal which includes a key input unit and a storage unit for storing a number of characters in mutual association which are arranged in predetermined order; searching a number of characters corresponding to the inputted key from the storage unit and displaying the characters in a current cursor position in sequence according to a predetermined time interval.

As to claim 2, Yang discloses number of letters of a word to be retrieved (see Figure 2 element 202 and 204).

However Yang does not disclose wherein, in step c) the number of letters of a word to be retrieved is restricted to within a certain predetermined range.

Lee from the same field of endeavor disclose the number of letters of a word to be retrieved is restricted to within a certain predetermined range (see col., 1 lines, 63-67 and col., 2 lines, 1-11).

It would have been obvious to have modified Yang's inputting letters in a wireless terminal the time of the invention with inputting letters in a wireless terminal as presented by Lee.

The motivation to combine to provide a method for inputting characters in a mobile terminal which includes a key input unit and a storage unit for storing a number of characters in mutual association which are arranged in predetermined order.

As to claim 3, Yang does not disclose wherein a cursor moves in front of the last letter so as to enable an additional letter to be input.

Lee from the same field of endeavor disclose wherein a cursor moves in front of the last letter so as to enable an additional letter to be input (see col., 2 lines, 12-19).

It would have been obvious to have modified Yang's inputting letters in a wireless terminal the time of the invention with inputting letters in a wireless terminal as presented by Lee.

The motivation to combine to provide a method for inputting characters in a mobile terminal which includes a key input unit and a storage unit for storing a number of characters in mutual association which are arranged in predetermined order maintaining a character displayed in a current cursor position and displacing the current cursor position to a next cursor position.

As to claim 4, Yang discloses wherein the retrieved word is displayed in a sequence of higher retrieval-frequency (see abstract).

As to claim 5, Yang disclose, wherein, if the function key is pressed N times after typing the last letter, all the letters from the n.sup.th letter to the last one are recognized as the last letters (see paragraph [0027] and Figure 2).

As to claim 6, Yang disclose a method of inputting letters in a device capable of accepting letters as input (example, Inputting characters on a wireless mobile terminal, see abstract) comprising steps of:

a) typing in a first predetermined number of letters sequentially from a first letter of a word to be input, and pressing a function key (example, if a key corresponding to a sentence input completion is inputted, see, paragraph [0043], Figure 6 and Figure 2);

b) retrieving words starting with the typed-in letters, the retrieved words being composed of a second predetermined number of letters (see abstract);

c) displaying the retrieved words on a display device (see abstract); and

d) selecting a desired word from the displayed words, and converting the typed-in letters into the selected word (see paragraph [0031] and Figure 6.

However Yang does not specifically disclose retrieving.

Lee from the same field of endeavor discloses retrieving (see col. 3 lines, 58-67).

It would have been obvious to have modified Yang's retrieving as presented by Lee.

The motivation to combine to provide a method for inputting characters in a mobile terminal which includes a key input unit and a storage unit for storing a number of characters in mutual association which are arranged in predetermined order; searching a number of characters corresponding to the inputted key from the storage unit and displaying the characters in a current cursor position in sequence according to a predetermined time interval.

As to claim 7, Yang discloses a method according to claim 6, wherein the device includes a cellular phone, a PDA, or a personal computer (example, wireless mobile terminal, see abstract).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ohgitani (US Pub No.: 2003/0206159) is cited to teach Key input device.

Lo (US Pub No.: 2004/0095327) is cited to teach Alphanumeric data input system and method.

Griffin (US 2005/0190970) is cited to teach text input system for a mobile electronic device and methods thereof.

Assadollahi (US Pub No.: 2007/0074131) is cited to teach Device incorporating improved text input mechanism.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meseker Takele whose telephone number is (571) 270-1653. The examiner can normally be reached on Monday - Friday 7:30AM- 5:00PM est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/538,549

Page 7

Art Unit: 2174

MT

Kristine Kincaid

KRISTINE KINCAID

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100